



-1-

SEQUENCE LISTING

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Celis, Esteban  
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<120> Inducing Cellular Immune Responses to  
Mage2/3 Using Peptide and Nucleic Acid Compositions

<130> 2060.0130000

<140> US 09/458,298

<141> 1999-12-10

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

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<151> 1993-11-29

<160> 2438

<170> PatentIn version 3.1

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<210> 1841  
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<400> 1846

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<210> 1849

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Tyr Val Lys Val Leu His His Met Val Lys  
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Cys Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu

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Val Met Pro Lys Thr Gly Leu Leu Ile

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His Phe Val Gln Glu Asn Tyr Leu  
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His Met Val Lys Ile Ser Gly Gly Pro His Ile  
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Ile Phe Ala Thr Cys Leu Gly Leu  
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<210> 1895

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<210> 1906  
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<400> 1906  
Gln Tyr Phe Phe Pro Val Ile Phe  
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<400> 1911  
Val Phe Glu Gly Arg Glu Asp Ser Ile  
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<400> 1912  
Val Phe Glu Gly Arg Glu Asp Ser Ile Leu  
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<220>  
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Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu	Gly	Asp	Asn	Gln	Val
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<210> 1915

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Asp	Gly	Leu	Leu	Gly	Asp	Asn	Gln	Val	Met	Pro	Lys	Thr	Gly	Leu
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<210> 1916

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Glu	Glu	Lys	Ile	Trp	Glu	Glu	Leu	Ser	Met	Leu	Glu	Val	Phe	Glu
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<210> 1917

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<400> 1917

Glu	Phe	Leu	Trp	Gly	Pro	Arg	Ala	Leu	Ile	Glu	Thr	Ser	Tyr	Val
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<210> 1918

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<400> 1918

Glu	Lys	Ile	Trp	Glu	Glu	Leu	Ser	Met	Leu	Glu	Val	Phe	Glu	Gly
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<210> 1919

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<400> 1919

Glu	Asn	Tyr	Leu	Glu	Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asp	Pro	Ala
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<400> 1920

Glu	Pro	His	Ile	Ser	Tyr	Pro	Pro	Leu	His	Glu	Arg	Ala	Leu	Arg
1				5					10					15

<210> 1921

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<400> 1921

Glu	Ser	Glu	Phe	Gln	Ala	Ala	Ile	Ser	Arg	Lys	Met	Val	Glu	Leu
1				5					10					15

<210> 1922

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<400> 1922

Glu	Val	Thr	Leu	Gly	Glu	Val	Pro	Ala	Ala	Asp	Ser	Pro	Ser	Pro
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<400> 1923  
Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu  
1 5 10 15

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<400> 1924  
Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu Val  
1 5 10 15

<210> 1925  
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<400> 1925  
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu  
1 5 10 15

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<400> 1926  
Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile  
1 5 10 15

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<400> 1927  
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp  
1 5 10 15

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<400> 1928  
His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys  
1 5 10 15

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<400> 1929  
His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly  
1 5 10 15

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<400> 1930  
Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu  
1 5 10 15

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<400> 1931  
Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp  
1 5 10 15

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<400> 1932  
Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro

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Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr  
1 5 10 15

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<400> 1934  
Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln Asp Phe  
1 5 10 15

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<400> 1935  
Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu  
1 5 10 15

<210> 1936  
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<400> 1936  
Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser  
1 5 10 15

<210> 1937  
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<400> 1937

Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Gln  
1 5 10 15

<210> 1938

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<400> 1938

Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala  
1 5 10 15

<210> 1939

<211> 15

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<400> 1939

Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys  
1 5 10 15

<210> 1940

<211> 15

<212> PRT

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<400> 1940

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
1 5 10 15

<210> 1941

<211> 15

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<400> 1941

Leu Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile  
1 5 10 15

<210> 1942

<211> 15

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<400> 1942

Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro  
1 5 10 15

<210> 1943

<211> 15

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<400> 1943

Met Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10 15

<210> 1944

<211> 15

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<400> 1944

Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala  
1 5 10 15

<210> 1945

<211> 15

<212> PRT

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<400> 1945

Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu  
1 5 10 15

<210> 1946

<211> 15

<212> PRT

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<400> 1946

Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile  
1 5 10 15

<210> 1947

<211> 15

<212> PRT  
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<400> 1947  
Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His Phe Leu  
1 5 10 15

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<212> PRT  
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<400> 1948  
Gln Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu  
1 5 10 15

<210> 1949  
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<400> 1949  
Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro  
1 5 10 15

<210> 1950  
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<212> PRT  
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<220>  
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<400> 1950  
Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser  
1 5 10 15

<210> 1951  
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<212> PRT  
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<400> 1951  
Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His His Thr  
1 5 10 15

<210> 1952  
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<212> PRT  
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<400> 1952  
Arg Glu Pro Val Thr Lys Ala Glu Met Leu Glu Ser Val Leu Arg  
1 5 10 15

<210> 1953  
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<400> 1953  
Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 1954  
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<212> PRT  
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<400> 1954  
Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp  
1 5 10 15

<210> 1955  
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<212> PRT  
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<400> 1955  
Ser Ser Thr Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala  
1 5 10 15

<210> 1956  
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<212> PRT  
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<220>  
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<400> 1956  
Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly



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<400> 1957  
Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu  
1 5 10 15

<210> 1958  
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<400> 1958  
Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys  
1 5 10 15

<210> 1959  
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<400> 1959  
Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu  
1 5 10 15

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<212> PRT  
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<400> 1960  
Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly  
1 5 10 15

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<400> 1961

Trp	Glu	Glu	Leu	Ser	Met	Leu	Glu	Val	Phe	Glu	Gly	Arg	Glu	Asp
1				5					10				15	

<210> 1962

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<400> 1962

Tyr	Glu	Phe	Leu	Trp	Gly	Pro	Arg	Ala	Leu	Ile	Glu	Thr	Ser	Tyr
1				5					10				15	

<210> 1963

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<400> 1963

Tyr	Ile	Leu	Val	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu
1				5					10				15	

<210> 1964

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<400> 1964

Tyr	Pro	Pro	Leu	His	Glu	Arg	Ala	Leu	Arg	Glu	Gly	Glu	Glu
1				5					10				

<210> 1965

<211> 15

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<400> 1965

Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asp	Pro	Ala	Cys	Tyr	Glu	Phe	Leu
1				5					10				15	

<210> 1966

<211> 15

<212> PRT

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<400> 1966

Tyr	Val	Lys	Val	Leu	His	His	Thr	Leu	Lys	Ile	Gly	Gly	Glu	Pro
1				5					10					15

<210> 1967

<211> 15

<212> PRT

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<400> 1967

Ala	Glu	Leu	Val	His	Phe	Leu	Leu	Leu	Lys	Tyr	Arg	Ala	Arg	Glu
1				5					10					15

<210> 1968

<211> 15

<212> PRT

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<400> 1968

Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala	Ile	Ile	Ala	Arg	Glu	Gly
1				5					10					15

<210> 1969

<211> 15

<212> PRT

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<400> 1969

Ala	Leu	Gly	Leu	Val	Gly	Ala	Gln	Ala	Pro	Ala	Thr	Glu	Glu	Gln
1				5					10					15

<210> 1970

<211> 15

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<400> 1970

Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu	Gly	Asp	Asn	Gln	Ile
1				5					10					15

<210> 1971

<211> 15

<212> PRT  
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<400> 1971  
Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly Leu  
1 5 10 15

<210> 1972  
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<220>  
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<400> 1972  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu  
1 5 10 15

<210> 1973  
<211> 15  
<212> PRT  
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<400> 1973  
Glu Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val  
1 5 10 15

<210> 1974  
<211> 15  
<212> PRT  
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<400> 1974  
Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu Gly  
1 5 10 15

<210> 1975  
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<400> 1975  
Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala  
1 5 10 15

<210> 1976  
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<212> PRT  
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<400> 1976  
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu  
1 5 10 15

<210> 1977  
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<400> 1977  
Glu Val Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro  
1 5 10 15

<210> 1978  
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<400> 1978  
Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu  
1 5 10 15

<210> 1979  
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<400> 1979  
Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu Val  
1 5 10 15

<210> 1980  
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<212> PRT  
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<400> 1980  
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu

1 5 10 15

<210> 1981  
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<400> 1981  
Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp  
1 5 10 15

<210> 1982  
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<212> PRT  
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<400> 1982  
Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile  
1 5 10 15

<210> 1983  
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<400> 1983  
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp  
1 5 10 15

<210> 1984  
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<212> PRT  
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<400> 1984  
Gly Pro His Ile Ser Tyr Pro Pro Leu His Glu Trp Val Leu Arg  
1 5 10 15

<210> 1985  
<211> 15  
<212> PRT  
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<220>  
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<400> 1985

His	Phe	Leu	Leu	Leu	Lys	Tyr	Arg	Ala	Arg	Glu	Pro	Val	Thr	Lys
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<210> 1986

<211> 15

<212> PRT

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<400> 1986

His	Leu	Tyr	Ile	Phe	Ala	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly
1				5					10					15

<210> 1987

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<400> 1987

Ile	Glu	Leu	Met	Glu	Val	Asp	Pro	Ile	Gly	His	Leu	Tyr	Ile	Phe
1				5					10					15

<210> 1988

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<400> 1988

Ile	Gly	His	Leu	Tyr	Ile	Phe	Ala	Thr	Cys	Leu	Gly	Leu	Ser	Tyr
1				5					10					15

<210> 1989

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<212> PRT

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<400> 1989

Lys	Ala	Glu	Met	Leu	Gly	Ser	Val	Val	Gly	Asn	Trp	Gln	Tyr	Phe
1				5					10					15

<210> 1990

<211> 15

<212> PRT

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<400> 1990

Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu  
1 5 10 15

<210> 1991

<211> 15

<212> PRT

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<400> 1991

Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 1992

<211> 15

<212> PRT

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<400> 1992

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser  
1 5 10 15

<210> 1993

<211> 15

<212> PRT

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<400> 1993

Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu  
1 5 10 15

<210> 1994

<211> 15

<212> PRT

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<220>

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<400> 1994

Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala  
1 5 10 15

<210> 1995

<211> 15



<212> PRT  
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<400> 1995  
Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys  
1 5 10 15

<210> 1996  
<211> 15  
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<400> 1996  
Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
1 5 10 15

<210> 1997  
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<400> 1997  
Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile  
1 5 10 15

<210> 1998  
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<212> PRT  
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<400> 1998  
Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro  
1 5 10 15

<210> 1999  
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<212> PRT  
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<400> 1999  
Asn Gln Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu Ala  
1 5 10 15

<210> 2000  
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<212> PRT  
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<400> 2000  
Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser  
1 5 10 15

<210> 2001  
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<212> PRT  
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<220>  
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<400> 2001  
Pro Ser Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu  
1 5 10 15

<210> 2002  
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<212> PRT  
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<400> 2002  
Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu Val Phe  
1 5 10 15

<210> 2003  
<211> 15  
<212> PRT  
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<400> 2003  
Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His Phe Leu  
1 5 10 15

<210> 2004  
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<212> PRT  
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<220>  
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<400> 2004  
Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro

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<210> 2005  
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<400> 2005  
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly  
1 5 10 15

<210> 2006  
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<212> PRT  
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<220>  
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<400> 2006  
Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu  
1 5 10 15

<210> 2007  
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<212> PRT  
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<220>  
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<400> 2007  
Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His His Met  
1 5 10 15

<210> 2008  
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<212> PRT  
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<400> 2008  
Arg Glu Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly  
1 5 10 15

<210> 2009  
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<212> PRT  
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<400> 2009

Ser Ser Thr Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala  
1 5 10 15

<210> 2010

<211> 15

<212> PRT

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<400> 2010

Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10 15

<210> 2011

<211> 15

<212> PRT

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<400> 2011

Val Asp Pro Ile Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly  
1 5 10 15

<210> 2012

<211> 15

<212> PRT

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<400> 2012

Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu  
1 5 10 15

<210> 2013

<211> 15

<212> PRT

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<400> 2013

Val Gly Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala  
1 5 10 15

<210> 2014

<211> 15

<212> PRT

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<400> 2014

Trp	Glu	Glu	Leu	Ser	Val	Leu	Glu	Val	Phe	Glu	Gly	Arg	Glu	Asp
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<210> 2015

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<400> 2015

Tyr	Glu	Phe	Leu	Trp	Gly	Pro	Arg	Ala	Leu	Val	Glu	Thr	Ser	Tyr
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<210> 2016

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<400> 2016

Tyr	Pro	Pro	Leu	His	Glu	Trp	Val	Leu	Arg	Glu	Gly	Glu	Glu
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<400> 2017

Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asp	Pro	Ala	Cys	Tyr	Glu	Phe	Leu
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<210> 2018

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<400> 2018

Tyr	Val	Lys	Val	Leu	His	His	Met	Val	Lys	Ile	Ser	Gly	Gly	Pro
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Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val  
1 5 10 15

<210> 2020  
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<400> 2020  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Met Leu Glu Val Phe Glu  
1 5 10 15

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<400> 2021  
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys  
1 5 10 15

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<400> 2022  
Gly Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala  
1 5 10 15

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<400> 2023  
Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp  
1 5 10 15

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<400> 2024  
Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys  
1 5 10 15

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<400> 2025  
Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
1 5 10 15

<210> 2026  
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<400> 2026  
Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser  
1 5 10 15

<210> 2027  
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<400> 2027  
Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

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<400> 2028  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val Met Pro Lys Thr Gly

1 5 10 15

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<400> 2029  
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile  
1 5 10 15

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<400> 2030  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu  
1 5 10 15

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<400> 2031  
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys  
1 5 10 15

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<400> 2032  
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe  
1 5 10 15

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<400> 2033

Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys  
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<210> 2034

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<400> 2034

Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly  
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<211> 15

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<400> 2035

Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
1 5 10 15

<210> 2036

<211> 15

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<400> 2036

Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly  
1 5 10 15

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<400> 2037

Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His  
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<223> Artificial Peptide

<400> 2038

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro  
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<210> 2039

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<400> 2039

Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu  
1 5 10 15

<210> 2040

<211> 15

<212> PRT

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<400> 2040

Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His  
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<210> 2041

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<400> 2041

Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His  
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Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His  
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<210> 2043

<211> 12

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<400> 2043  
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<400> 2044  
Leu Val Gly Ala Gln Ala Pro Ala Thr  
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<400> 2045  
Leu Ser Tyr Asp Gly Leu Leu Gly Asp  
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<400> 2046  
Leu Gly Asp Asn Gln Val Met Pro Lys  
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<400> 2047  
Ile Trp Glu Glu Leu Ser Met Leu Glu  
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<400> 2048  
Trp Gly Pro Arg Ala Leu Ile Glu Thr  
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<400> 2049  
Trp Glu Glu Leu Ser Met Leu Glu Val  
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Leu Glu Tyr Arg Gln Val Pro Gly Ser  
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<400> 2051  
Ile Ser Tyr Pro Pro Leu His Glu Arg  
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<400> 2052  
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<211> 9

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<220>

<223> Artificial Peptide

<400> 2053

Leu Gly Glu Val Pro Ala Ala Asp Ser

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<210> 2054

<211> 9

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<400> 2054

Val Ile Phe Ser Lys Ala Ser Glu Tyr

1

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<210> 2055

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<400> 2055

Ile Phe Ser Lys Ala Ser Glu Tyr Leu

1

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<210> 2056

<211> 9

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<400> 2056

Leu Gly Leu Val Gly Ala Gln Ala Pro

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<210> 2057

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<400> 2057  
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<400> 2058  
Ile Ile Val Leu Ala Ile Ile Ala Ile  
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Leu Leu Lys Tyr Arg Ala Arg Glu Pro  
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<400> 2060  
Ile Leu Val Thr Cys Leu Gly Leu Ser  
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<400> 2061  
Val Glu Val Val Pro Ile Ser His Leu  
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<400> 2062

Ile Glu Gly Asp Cys Ala Pro Glu Glu  
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<210> 2063

<211> 9

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<400> 2063

Leu Ala Ile Ile Ala Ile Glu Gly Asp  
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<210> 2064

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<400> 2064

Leu Tyr Ile Leu Val Thr Cys Leu Gly  
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<210> 2065

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<400> 2065

Met Leu Glu Ser Val Leu Arg Asn Cys  
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<210> 2066

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<400> 2066

Leu Leu Ile Ile Val Leu Ala Ile Ile  
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Val Pro Ala Ala Asp Ser Pro Ser Pro  
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<210> 2068  
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<400> 2068  
Val Gly Ala Gln Ala Pro Ala Thr Glu  
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<210> 2069  
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<400> 2069  
Val Leu Ala Ile Ile Ala Ile Glu Gly  
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<210> 2070  
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<400> 2070  
Ile Val Leu Ala Ile Ile Ala Ile Glu  
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<210> 2071  
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<400> 2071  
Tyr Arg Ala Arg Glu Pro Val Thr Lys  
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<210> 2072  
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<400> 2072  
Val Phe Gly Ile Glu Val Val Glu Val  
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<210> 2073  
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<400> 2073  
Val Thr Leu Gly Glu Val Pro Ala Ala  
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<400> 2074  
Leu Val His Phe Leu Leu Leu Lys Tyr  
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<400> 2075  
Met Pro Lys Thr Gly Leu Leu Ile Ile  
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<400> 2076  
Leu Leu Met Gln Asp Leu Val Gln Glu

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<210> 2077  
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<400> 2077  
Phe Pro Asp Leu Glu Ser Glu Phe Gln  
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<210> 2078  
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<400> 2078  
Ile Ser Arg Lys Met Val Glu Leu Val  
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<210> 2079  
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<400> 2079  
Phe Pro Val Ile Phe Ser Lys Ala Ser  
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<210> 2080  
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<400> 2080  
Val Gln Glu Asn Tyr Leu Glu Tyr Arg  
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<210> 2081  
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<400> 2081  
Phe Gly Ile Glu Val Val Glu Val Val  
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<400> 2082  
Ile Glu Thr Ser Tyr Val Lys Val Leu  
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<210> 2083  
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<400> 2083  
Val Thr Lys Ala Glu Met Leu Glu Ser  
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<210> 2084  
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<400> 2084  
Leu Met Gln Asp Leu Val Gln Glu Asn  
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<210> 2085  
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<400> 2085  
Tyr Ile Leu Val Thr Cys Leu Gly Leu  
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<210> 2086  
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<400> 2086

Leu Val Glu Val Thr Leu Gly Glu Val  
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<210> 2087

<211> 9

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<400> 2087

Leu Ile Ile Val Leu Ala Ile Ile Ala  
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<210> 2088

<211> 9

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<400> 2088

Val His Phe Leu Leu Leu Lys Tyr Arg  
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<210> 2089

<211> 9

<212> PRT

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<400> 2089

Val Pro Ile Ser His Leu Tyr Ile Leu  
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<210> 2090

<211> 9

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<400> 2090

Ile Glu Val Val Glu Val Val Pro Ile  
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<210> 2091

<211> 9

<212> PRT  
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<400> 2091  
Ile Ser His Leu Tyr Ile Leu Val Thr  
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<210> 2092  
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<400> 2092  
Leu Ser Met Leu Glu Val Phe Glu Gly  
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<400> 2093  
Leu Trp Gly Pro Arg Ala Leu Ile Glu  
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<210> 2094  
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<400> 2094  
Val Thr Cys Leu Gly Leu Ser Tyr Asp  
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<210> 2095  
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<400> 2095  
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<210> 2096  
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<400> 2097  
Val Leu His His Thr Leu Lys Ile Gly  
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Val His Phe Leu Leu Leu Lys Tyr Arg  
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<210> 2099  
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<400> 2099  
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<210> 2100  
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<400> 2100  
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<400> 2101

Leu Ser Tyr Asp Gly Leu Leu Gly Asp

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<210> 2102

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<223> Artificial Peptide

<400> 2102

Leu Gly Asp Asn Gln Ile Met Pro Lys

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<210> 2103

<211> 9

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<400> 2103

Ile Trp Glu Glu Leu Ser Val Leu Glu

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<210> 2104

<211> 9

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<400> 2104

Trp Gly Pro Arg Ala Leu Val Glu Thr

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<210> 2105

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<400> 2105  
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<400> 2106  
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<210> 2107  
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<400> 2107  
Phe Gln Ala Ala Leu Ser Arg Lys Val  
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<210> 2108  
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<400> 2108  
Leu Gly Glu Val Pro Ala Ala Glu Ser  
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<210> 2109  
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<400> 2109  
Val Ile Phe Ser Lys Ala Ser Ser Ser  
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<210> 2110  
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<220>

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<400> 2110

Ile Phe Ser Lys Ala Ser Ser Ser Leu  
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<210> 2111

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<400> 2111

Leu Gly Leu Val Gly Ala Gln Ala Pro  
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<210> 2112

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<400> 2112

Tyr Ile Phe Ala Thr Cys Leu Gly Leu  
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<210> 2113

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<400> 2113

Leu Met Glu Val Asp Pro Ile Gly His  
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<210> 2114

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<400> 2114

Ile Ile Val Leu Ala Ile Ile Ala Arg  
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<210> 2115

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Ile Ser Tyr Pro Pro Leu His Glu Trp  
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<210> 2116  
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<210> 2117  
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Ile Phe Ala Thr Cys Leu Gly Leu Ser  
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<210> 2118  
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<210> 2119  
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<400> 2119  
Leu Tyr Ile Phe Ala Thr Cys Leu Gly  
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<210> 2120  
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<400> 2121  
Leu Leu Ile Ile Val Leu Ala Ile Ile  
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<210> 2122  
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Leu Thr Gln His Phe Val Gln Glu Asn  
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<210> 2123  
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<220>  
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<400> 2123  
Val Pro Ala Ala Glu Ser Pro Asp Pro  
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<400> 2125  
Val Leu Ala Ile Ile Ala Arg Glu Gly  
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<400> 2126  
Ile Val Leu Ala Ile Ile Ala Arg Glu  
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<210> 2127  
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<400> 2127  
Tyr Arg Ala Arg Glu Pro Val Thr Lys  
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<210> 2128  
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<400> 2128  
Val Phe Gly Ile Glu Leu Met Glu Val  
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<400> 2129  
Val Thr Leu Gly Glu Val Pro Ala Ala  
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<400> 2130  
Met Pro Lys Ala Gly Leu Leu Ile Ile  
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<400> 2131  
Tyr Phe Phe Pro Val Ile Phe Ser Lys  
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<210> 2132  
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<400> 2132  
Phe Pro Asp Leu Glu Ser Glu Phe Gln  
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<400> 2133  
Phe Ser Lys Ala Ser Ser Ser Leu Gln  
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<400> 2134

Leu Ser Arg Lys Val Ala Glu Leu Val  
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<400> 2135

Val Gln Glu Asn Tyr Leu Glu Tyr Arg  
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<210> 2136

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<400> 2136

Phe Gly Ile Glu Leu Met Glu Val Asp  
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<400> 2137

Phe Pro Val Ile Phe Ser Lys Ala Ser  
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<210> 2138

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Val Glu Thr Ser Tyr Val Lys Val Leu  
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<210> 2139

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Leu Val His Phe Leu Leu Leu Lys Tyr  
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Ile Gly His Leu Tyr Ile Phe Ala Thr  
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Trp Gln Tyr Phe Phe Pro Val Ile Phe  
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Leu Ser Val Leu Glu Val Phe Glu Gly  
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Leu Trp Gly Pro Arg Ala Leu Val Glu  
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Leu His Glu Trp Val Leu Arg Glu Gly  
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<210> 2148  
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Val Pro Gly Ser Asp Pro Ala Cys Tyr



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<400> 2149

Val Leu His His Met Val Lys Ile Ser

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<400> 2150

Leu Ser Tyr Asp Gly Leu Leu Gly Asp

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<210> 2151

<211> 9

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Ile Trp Glu Glu Leu Ser Met Leu Glu

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<210> 2152

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Leu Glu Ser Glu Phe Gln Ala Ala Ile

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Leu Val Gln Glu Asn Tyr Leu Glu Tyr  
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<400> 2158

Leu Met Gln Asp Leu Val Gln Glu Asn  
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<210> 2159

<211> 9

<212> PRT

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<400> 2159

Leu Leu Gly Asp Asn Gln Val Met Pro  
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<210> 2160

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<212> PRT

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<400> 2160

Leu Ser Tyr Asp Gly Leu Leu Gly Asp  
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<210> 2161

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<212> PRT

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Ile Trp Glu Glu Leu Ser Val Leu Glu  
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<210> 2162

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<400> 2162

Leu Glu Ser Glu Phe Gln Ala Ala Leu  
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<210> 2163

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Met Glu Val Asp Pro Ile Gly His Leu  
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<400> 2164  
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Phe Gly Ile Glu Leu Met Glu Val Asp  
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<400> 2166  
Phe Val Gln Glu Asn Tyr Leu Glu Tyr  
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<400> 2167  
Leu Leu Gly Asp Asn Gln Ile Met Pro  
1 5

<210> 2168  
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<400> 2168  
Ala Ala Ile Ser Arg Lys Met Val Glu  
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<400> 2169  
Met Pro Leu Glu Gln Arg Ser Gln His  
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Ile Gly Gly Glu Pro His Ile Ser Tyr  
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<400> 2171  
Leu His His Thr Leu Lys Ile Gly Gly  
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<210> 2172  
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<400> 2172  
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<210> 2173

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<400> 2173

Ala Ala Leu Ser Arg Lys Val Ala Glu

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<210> 2174

<211> 9

<212> PRT

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<400> 2174

Met Pro Leu Glu Gln Arg Ser Gln His

1

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<210> 2175

<211> 9

<212> PRT

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<400> 2175

Tyr Leu Glu Pro Ala Ile Ala Lys Tyr

1

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<210> 2176

<211> 10

<212> PRT

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<400> 2176

Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val  
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Tyr Val Ile Lys Val Ser Ala Arg Val  
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<210> 2183

<211> 10

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<220>

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<400> 2183

Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys  
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<210> 2184

<211> 9

<212> PRT

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<220>

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<400> 2184

Ala Val Asp Leu Tyr His Phe Leu Lys  
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<211> 10

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<400> 2185

Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys  
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<220>

<223> Artificial Peptide

<400> 2186

Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg  
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<210> 2187

<211> 10



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<400> 2187  
Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys  
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<210> 2188  
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Ala Tyr Ile Asp Asn Tyr Asn Lys Phe  
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<220>  
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<400> 2189  
Ala Pro Arg Thr Leu Val Tyr Leu Leu  
1 5

<210> 2190  
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<400> 2190  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
1 5

<210> 2191  
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<400> 2191  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
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<400> 2193  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
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<400> 2194  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
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<400> 2195  
Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg  
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<400> 2196  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr

1 5 10

<210> 2197  
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<220>  
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<400> 2197  
Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr  
1 5 10

<210> 2198  
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<220>  
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<400> 2198  
Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr  
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<210> 2199  
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<220>  
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<400> 2199  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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<210> 2200  
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<220>  
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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<220>  
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<400> 2201  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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<210> 2202  
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<400> 2202  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2203  
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<400> 2203  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2204  
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<212> PRT  
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<400> 2204  
Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser  
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<210> 2205  
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<400> 2205  
Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2206  
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<220>

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<400> 2206

Gly	Arg	Thr	Gln	Asp	Glu	Asn	Pro	Val	Val	His	Phe	Phe	Lys	Asn	Ile
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Val	Thr	Pro	Arg	Thr	Pro	Pro	Pro								
			20												

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<211> 13

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<220>

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<400> 2207

Asn	Gly	Gln	Ile	Gly	Asn	Asp	Pro	Asn	Arg	Asp	Ile	Leu
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<400> 2208

Tyr	Ala	Arg	Phe	Gln	Ser	Gln	Thr	Thr	Leu	Lys	Gln	Lys	Thr
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Gln	Tyr	Ile	Lys	Ala	Asn	Ser	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<210> 2210

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Gln	Tyr	Ile	Lys	Ala	Asn	Ser	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<400> 2211  
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
1 5 10 15  
Asn Val Val Asn Ser  
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<210> 2212  
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<220>  
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<400> 2212  
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala  
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<210> 2213  
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<221> VARIANT  
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<223> Xaa = D-Alanine or L-Alanine

<221> VARIANT  
<222> 3  
<223> Xaa = cyclohexylalanine, phenylalanine, or  
tyrosine

<400> 2213  
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa  
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<210> 2214  
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<400> 2214  
Lys Val Ala Glu Leu Val His Phe Leu  
1 5

<210> 2215  
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<220>  
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<400> 2215  
Lys Leu Ala Glu Leu Val His Phe Leu  
1 5

<210> 2216  
<211> 9  
<212> PRT  
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<220>  
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<400> 2216  
Lys Met Ala Glu Leu Val His Phe Leu  
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<210> 2217  
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<220>  
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<400> 2217  
Lys Leu Ala Glu Leu Val His Phe Val  
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<210> 2218  
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<400> 2218  
Lys Met Ala Glu Leu Val His Phe Val  
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<210> 2219  
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<400> 2219  
Lys Ile Trp Glu Glu Leu Ser Val Leu

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<210> 2220  
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<400> 2220  
Lys Leu Trp Glu Glu Leu Ser Val Val  
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<210> 2221  
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<220>  
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<400> 2221  
Ala Thr Cys Leu Gly Leu Ser Tyr  
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<210> 2222  
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<212> PRT  
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<220>  
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<400> 2222  
Val Val Glu Val Val Pro Ile Ser His Leu Tyr  
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<210> 2223  
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<220>  
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<400> 2223  
Thr Met Asn Tyr Pro Leu Trp Ser Gln Ser Tyr  
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<210> 2224  
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<400> 2224  
Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr  
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<210> 2225  
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<212> PRT  
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Val Thr Asp Leu Gly Leu Ser Tyr  
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<210> 2226  
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<400> 2226  
Ser Thr Phe Ser Thr Thr Ile Asn Tyr  
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Met Thr Asp Leu Val Gln Glu Asn Tyr  
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Ser Thr Leu Pro Thr Thr Met Asn Tyr  
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Gly Thr Val Val Gly Asn Trp Gln Tyr  
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<210> 2230

<211> 9

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<400> 2230

Glu Thr Asp Pro Ile Gly His Leu Tyr  
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<210> 2231

<211> 9

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2231

Ile Thr Gly Gly Pro His Ile Ser Tyr  
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<210> 2232

<211> 10

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Tyr Leu Gln Leu Val Phe Gly Ile Glu Val  
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Leu Val Phe Gly Ile Glu Val Val Glu Val  
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<400> 2371  
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Lys Val Ala Glu Leu Val His Phe Leu  
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Lys Val Ala Glu Leu Val His Phe Leu Leu  
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Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val  
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Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser  
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Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu  
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<400> 2385  
Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly  
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Glu Pro His Ile Ser Tyr Pro Pro Leu His Glu Arg Ala Leu Arg  
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<400> 2390  
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Asn	Trp	Gln	Tyr	Phe	Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser
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Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Leu	Gln	Leu	Val	Phe
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Leu	Gln	Leu	Val	Phe	Gly	Ile	Glu	Leu	Met	Glu	Val	Asp	Pro	Ile
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Gly	His	Leu	Tyr	Ile	Phe	Ala	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp
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<400> 2397

Asn	Gln	Ile	Met	Pro	Lys	Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala
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<210> 2398

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<400> 2398

Lys	Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala	Ile	Ile	Ala	Arg	Glu
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Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala	Ile	Ile	Ala	Arg	Glu	Gly
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<400> 2402  
Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu  
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<400> 2403  
Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile  
1 5 10 15

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<400> 2404  
Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu  
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Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile  
1 5 10 15

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Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys

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<400> 2411  
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Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val  
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<400> 2414  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val Met Pro Lys Thr Gly  
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Leu	Ala	Ile	Ile	Ala	Ile	Glu	Gly	Asp	Cys	Ala	Pro	Glu	Glu	Lys
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Arg	Lys	Leu	Leu	Met	Gln	Asp	Leu	Val	Gln	Glu	Asn	Tyr	Leu	Glu
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Met	Gln	Asp	Leu	Val	Gln	Glu	Asn	Tyr	Leu	Glu	Tyr	Arg	Gln	Val
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Thr	Leu	Lys	Ile	Gly	Gly	Glu	Pro	His	Ile	Ser	Tyr	Pro	Pro	Leu
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Phe	Pro	Asp	Leu	Glu	Ser	Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg	Lys
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Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg	Lys	Val	Ala	Glu	Leu	Val	His
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Gln	Leu	Val	Phe	Gly	Ile	Glu	Leu	Met	Glu	Val	Asp	Pro	Ile	Gly
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Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile  
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<400> 2427  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly  
1 5 10 15

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Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys  
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<400> 2430  
Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His  
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<400> 2431  
Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
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<400> 2432  
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<400> 2433  
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<400> 2435  
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe  
1 5 10 15

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<400> 2436  
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<223> May be Ile, Val, Met, Ser, Ala, Cys, Thr, Pro or Leu

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<221> MISC\_FEATURE  
<222> (8)..(8)  
<223> May be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> May be either Ile or Val

<400> 2437  
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa  
1 5

<210> 2438  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> DR7 deleterious motif

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> May be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> May be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (5)..(6)  
<223> May be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> May be Gly, Arg or Asp

<400> 2438  
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly  
1 5